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General Notice

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This unit is made for the purpose of persons who have special techniques and certifications.

Disclaimer

- I To take full advantage of the unit, you should be familiar with tyres of various kinds.
- I All information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make change at any time without notice.

Safety Precautions

- I Keep the floor of the baking room clean. Before spraying paint every time, clean the floor of the baking room with water.
- I Before spraying paint, clean the automobiles. And remove the dangerous goods, which are inflammable and exposable (expect the gasoline in the gasoline tank) from the automobiles.
- I During spraying, pass in and out of the baking room as little as possible, in order to keep out of the dust.
- I Before spraying paint every time, check if there is any oil in the tank in order to prevent damages due to dry friction.
- I Workers should wear work clothes and change shoes before entering the baking room. Smoking is strictly prohibited in the baking room.
- I Expect spray gun and oil carrier, no more paint materials are allowed to be put in the baking room.
- I If mosquitoes appear in the baking room, use mosquito repellent to get rid of them before spraying paint.

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Specifications

ITEM	Standard mode		Luxury mode		mode
	CCH--101	CCH--102	CCH--201	CCH--202	CCH--301
Overall dimension (m)	7.0*5.3*3.5	8.3*5.5*3.9	7.0*5.3*3.5	8.7*5.5*4.3	7.0*5.3*3.5
inner dimension (m)	6.9*3.9*2.7	8.2*4.0*3.1	6.9*3.9*2.7	8.6*4.0*3.4	6.9*3.9*2.7
Width of door for entrance of vehicle (m)	3.0	3.0	3.0	3.0	3.0
Height of door for entrance of vehicle (m)	2.7	3.1	2.7	3.4	2.7
steel plate thickness(mm)	0.326	0.326	0.376	0.426	0.426
filtrated area (m ²)	20	25	20	25	20
Air flow volume (m ³ /h)	21000	36000	22000	36000	25000
Air velocity within booth (m/s)	0.25~0.35	0.25~0.35	0.25~0.35	0.25~0.35	0.3~0.5
Ventilation times(times/hr)	265	352	265	299	332
Working temperature (°C)	60~80	60~80	60~80	60~80	60~80
Oil consumption(kg/set)	6~8	9~10	6~8	9~10	6~8
Power(kw)	9	12.5	13.5	13	17
Main blower	One unit 7.5KW European style professional blowers	One unit 11KW European style professional blowers	One unit 7.5KW European style professional blowers; and one unit 4KW standard blower	One unit 11KW European style professional blowers	One unit 7.5KW European style professional blowers , and one unit 7.5KW standard blower
environmental protection device	no	no	no	no	no
Nether lighting	no	no	Equipped with 8 sets	no	Equipped with 8 sets

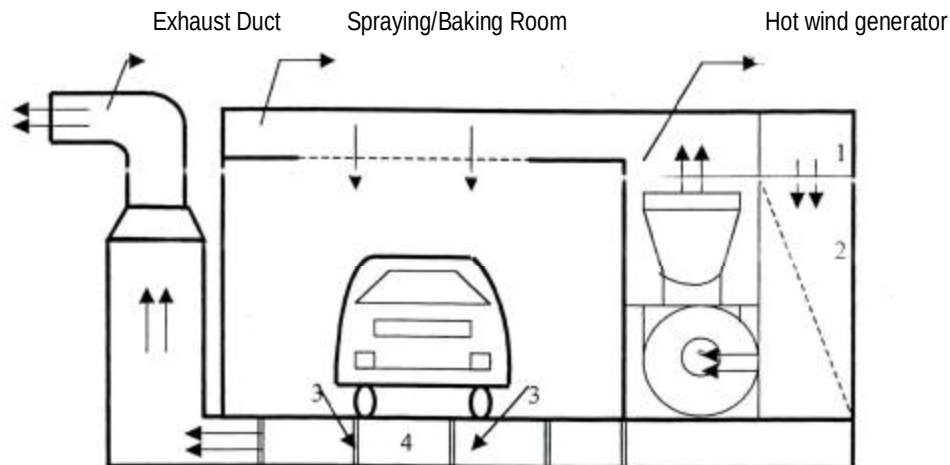
Operation

Principles

Paint booth is composed of paint spraying/baking rooms, hot wind generators, and electric controller.

Paint Spraying

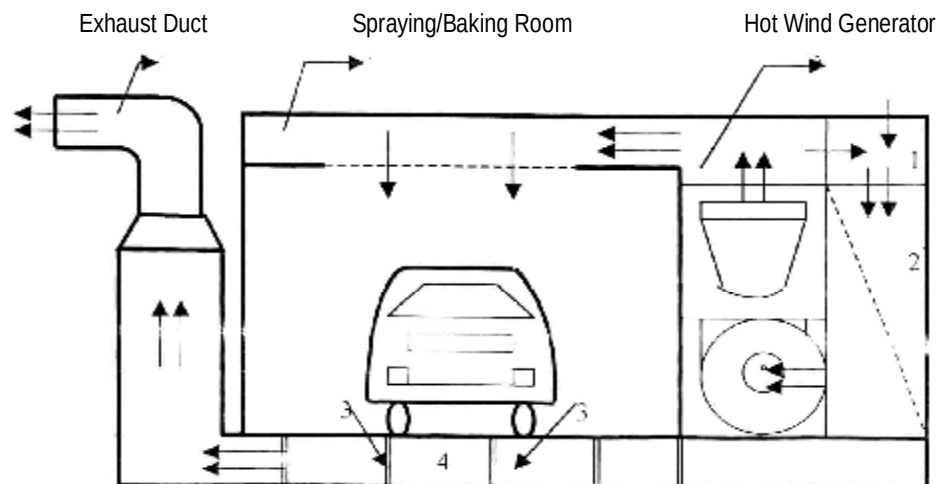
During spraying paint, the two main blowers draw inward the fresh air from the air intake (Figure 1), eliminating the big grains of dust when the fresh air passes through the first filters (Figure 2), and then the fresh air is sent to the gas chambers at the top of baking rooms. The fresh air after being filtered clean by the filter cotton flows down from the top, and it will be discharged out of the baking room from the grates (Figure 3) to the ground platform (Drawing 4). During the process, the baking room will maintain positive pressure all along to keep the dust from coming in.



(Paint Spraying)

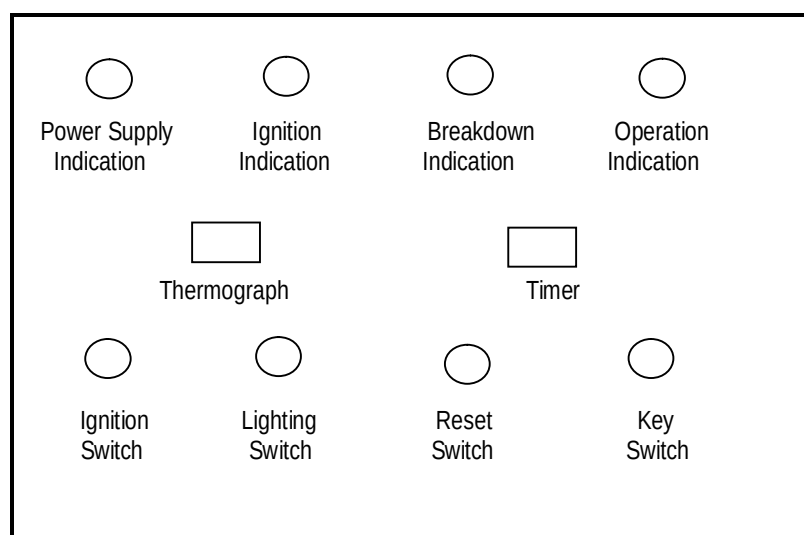
Paint Baking

During baking, use the automatically controlled burner to ignite and increase temperature, and the two main blowers draw inward "cold" air which is later heated up when passing through the heat exchangers. At this time, the is opened. A part of hot air flow enters into the baking room, and the remaining hot air flow will pass through the recycling damper and blend with the "cold" air coming from the air intake (Figure 1) and these compound air reenters into the heat exchangers to be heated up. These procedures above are repeated and the air will be heated continuously. When the temperature reaches a set value for baking, the baking room will automatically keep so high.



(Paint Baking)

Function Description of Switches and Meters on Electric Controller



1.Key Switch

After the key switches are open, the two main blowers are activated. At the same time, connect the control power supply, and then the operation indicator lamp of the blower illuminates.

2.Lighting Switch

Turn on the lighting lamp at the back booth.

3.Ignition Switch

When the temperature indicator and the time indicator are set in a certain value, and the ignition switch is moved with hand to the baking position, the air door will automatically open to the horizontal position and the burner also activates. When the ignition switch is moved with hand to the heating spray position, and the air door is closed, the burner activates. At the same time, the ignition indicator lamp of the burners illuminates.

4. Reset Switch

Push these switches to reset the working time.

5.Timer

Used to set baking time, it will automatically turn off the burner when the setting time is up. The detailed procedures for setting baking time are as follows.

Move the time switch on the panel of time indicators to "Minute" and "Second" position, and then turn the digital switch to set a desired time, the time indicator will begin to work from zero position after the reset buttons being pressed. For example, set the numbers as 4588, which means that the baking time is 45minutes and 88 seconds.

6.Thermograph

Used to control the temperature of the baking room, it can automatically turn off the burners when the temperature of the baking room reaches the setting value. The detailed procedures for setting baking temperature are as follows:

Ⅰ The Thermograph Setting Desired Value by Knobs:

Move the function switch with hand to the "setting" position, turn the knobs, and the value on the temperature indicator shows the real temperature inside the baking room. (If you want 60℃: move the function switch with hand to the "setting" position, turn the knobs until the value of 60℃ appears, and then turn the function switch back to the "measure" position. The value on the temperature indicator shows the real temperature inside the baking room. When the temperature reaches 60℃, the baking room will automatically turn off the burner, and when the temperature is lower to 60℃, the baking room will automatically switch on the burner and the burner will be ignited to increase the temperature.

Ⅰ The Thermograph Setting Desired Value by Number-dialing Switch:

Move the digital number-dialing switch with hand to a desired value, the number on the temperature indicator shows the real temperature inside the baking room.

Notice: The number-dialing switch has three digits. For example, if you want 60℃, you need to set the numbers with the switch as 060. When the temperature reaches 60℃, the baking room will automatically turn off the burner, and when the temperature is lower to 60℃, the baking room will automatically switch on the burner and the burner will be ignited to increase temperature.

7.Power Supply Indication Lamp:

This lamp illuminates when external power supply is input into the electric control panel.

8.Operation Indication Lamp of Blower:

This lamp illuminates when the blower runs.

9.Ignition Indication Lamp:

This lamp illuminates when the burner is ignited to increase temperature.

10.Malfunction Indication Lamp of Burner:

This lamp illuminates when the burner couldn't be ignited.

Operation Procedures of Paint Booth

1. Operation Procedures of Paint Spraying:

- I Clean the inner parts of the paint booth (including wall board and the filter cotton at the top of baking room) and the automobiles.
- I Close tightly the doors of the baking room, start the blower and the air compressor, turn on the lighting lamp, and blow from the top down with compressed air the inside of the baking room and the automobile is ready to be sprayed.
- I After finishing the above cleaning work, the paint spray is ready to start. If the ambient temperature is below 20°C, move the ignition switch with hand to the heating spraying paint position to ensure the temperature in the baking room is above 20°C in order to ensure the paint has good fluidity.

2. Operation Procedures of Paint Baking

- I Check to see if the gasoline in the oil tank is enough.
- I Check to see if the thermograph and the timer are in the setting value for baking (Notice: Make sure the setting temperature is not lower than the ambient temperature and the setting time is above zero).
- I Move the ignition switch with hand to the baking position, and the burners ignite. When the temperature in the baking room reaches the set value, a phase for heat preservation which lasts normally for 30-45 minutes is necessary.

Notice: When the baking time is up, keep running the main blower for 15 minutes before turning off the switch with lock. Otherwise, the temperature in the heat exchanger will be too high, which could cause damages to the facilities.

Make sure the lighting lamp is turned off during baking.

Operation Procedures of Burners

After the burner is switched on for 15-20 minutes, the burner during this period of time is activated and

then drives the impellers of air blowers and oil pumps. The impellers blow fresh air into combustion chambers, and the gasoline is drawn inward through oil-in pipe into oil pumps where the air and superfluous oil flow back to the oil tank through fuel return pipes.

After 15-20 seconds, the electrodes of burners begin to ignite; solenoid valves open the oil nozzles, which ignites the atomized oil. After 10 seconds, the flame reaches the maximum and remains stable. When the oil ejected from oil nozzle could not still be ignited after 5 seconds, and when receiving no optical signals, the photoelectricity sensors in the burner will automatically turn off the burner and at the same time, the malfunction indication lamp illuminates. To restart the burner, only press down the red reset switch in burners 30 seconds later.

Notice: During the normal operation of burners, do not add gasoline into the oil tank, because adding gasoline will produce large numbers of bubbles which could deactivate the burner by breaking down the gasoline supply after being drawn inward into the oil pumps. Therefore, add gasoline when the burner is not active.

Cautions on using Paint Booth

- I Keep clean the floor of the baking room. Before spraying paint every time, clean the floor of the baking room with water.
- I Before spraying paint, automobiles should be cleaned out. And remove the dangerous goods, which are inflammable and exposable (expect the gasoline in the gasoline tank) from the automobiles.
- I During spraying, pass in and out of the baking room as little as possible, in order to keep out of the dust.
- I Before spraying paint every time, check of there is any oil in the tank in order to prevent damages due to dry friction.
- I Workers should wear work clothes and change shoes before entering the baking room. Smoking is strictly prohibited in the baking room.
- I Expect spray gun and oil carrier, no more paint

materials are allowed to be put in the baking room.

- I If mosquitoes appear in the baking room, use mosquito repellent to get rid of them, before spraying paint.

Daily Maintenance of Paint Booth

- I Use compressed air to clean the first filter net every 40 working hours.
- I Clean the filter net at the nozzle of the oil-in pipe of burners every month.
- I Replace the filter cotton at the inner top of the baking room after spraying 200 automobiles.

Troubleshooting

Malfunction	Possible Cause	Solution
After 15 seconds when the burner is activated, the malfunction indicator lamp in the burner illuminates.	1. Gasoline tank is empty. 2. Air leaks from the joint of oil pipe 3. The Filter in the oil-in pipe is too dirty. 4. The electric eye is too dirty.	1. Fill gasoline tank . 2. Reconnect the oil pipe. 3. Clean filter. 4. Demount the electric control box and wipe out the electric eyes.
The burner emits black smoke after being ignited.	Air door is too small.	Adjust the air door until there is no black smoke.
Motor in burner doesn't run.	1. Time set on the time indicator is up. 2. Temperature set on the temperature indicator is up. 3. Oil pump gets stuck	1. Reset the time. 2. Reset the temperature. 3. Check oil pump to see if something or oil residue blocks up the oil pump.
The air flow is low when spraying paint	1. The first filter cotton is choked up. 2. Air valve is open.	1. Clean the first filter cotton. 2. Check air valve to see if it is active.
Temperature increases too slowly when baking paint	Air valve is closed .	Check air valve to see if it is active.
Main blower couldn't be activated.	1. Fuse is molten. 2. Electric machinery is broken.	1. Replace the fuse. 2. Replace the electric machinery.

Warranty

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note describing the problem. If the unit is determined to be in warranty, it will be repaired or replaced at no charge. If the unit is determined to be out of warranty, it will be repaired for a nominal service charge plus return freight. Send the unit pre-paid to:

Attn: Overseas Department
LAUNCH TECH. CO., LTD.
Xinyang Building,
Bagua 4th Road,
Shenzhen, Guangdong Province,
China

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Order Information

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:

1. Quantity
2. Part number
3. Item description

Customer Service

If you have any questions on the operation of the unit, please contact us:

Tel: 86-755-82269474,
Fax: 86-755-82264570,
E-mail: overseasales@cnlaunch.com.

If your unit requires repair service, return it to the manufacturer with a copy of the sales receipt and a